WU: Draw a sketch of the graph of the ≥ inequality.

① $2x - 3y \geq 4$

$-2x \quad -2x$

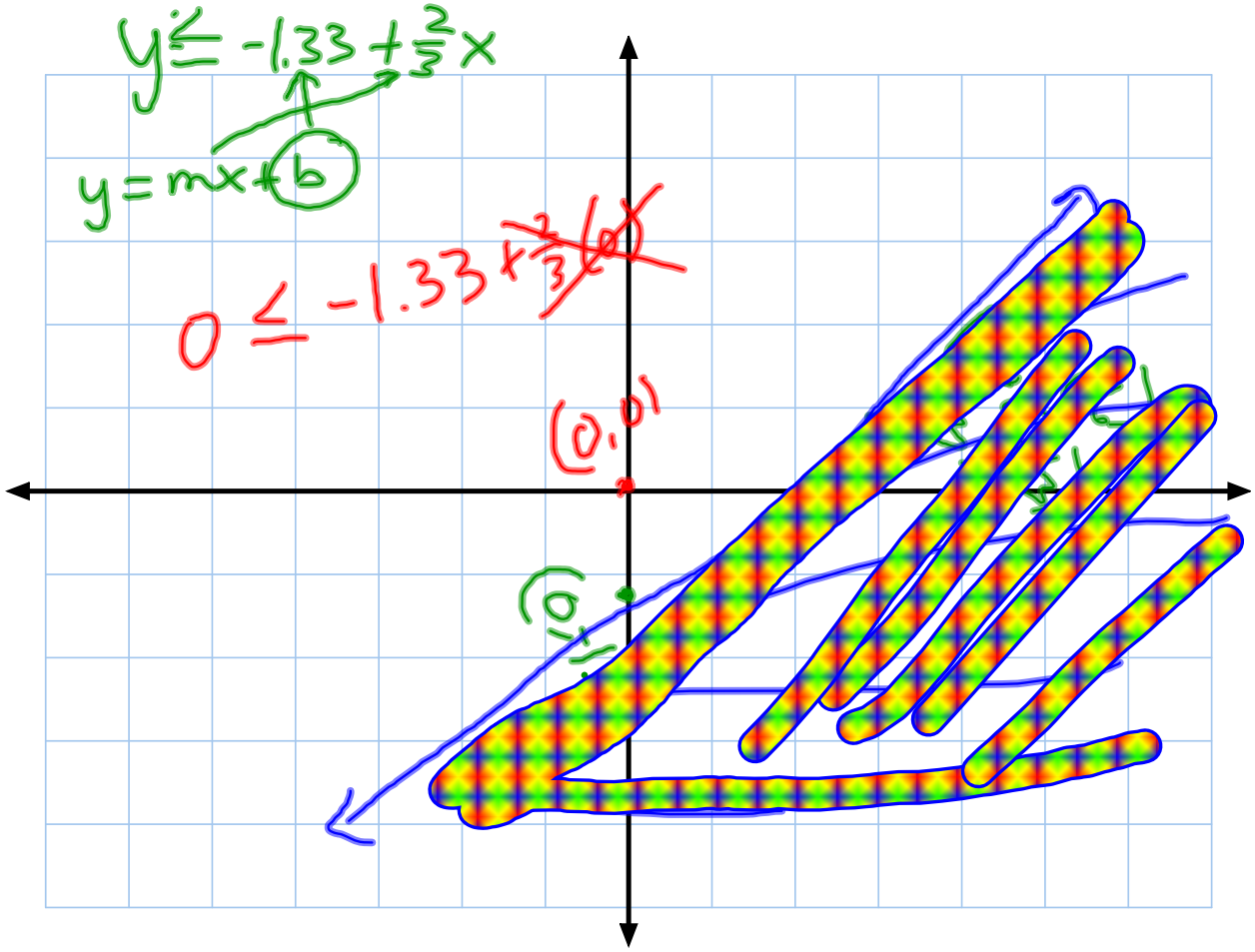
$-3y \geq 4 - 2x$

$\div -3 \quad \div -3$

$y \leq \frac{4-2x}{-3}$

$y \leq -1.33 + \frac{2}{3}x$

$y \geq \frac{4-2x}{3}$


y ≤ -1.33 + 2/3 x
y = mx + b
0 ≤ -1.33 + 2/3 (0)
(0, 0)
(0, -1)

(4) $(3, -4)$ $\perp$ to $(3,5)(0,2)$

x_1 y_1

$y - y_1 = m(x - x_1)$

$y + 4 = -1(x - 3)$

$y + 4 = -1x + 3$

$-4 \quad -4$

$y = -1x - 1$

$m = \frac{y_2 - y_1}{x_2 - x_1}$

$= \frac{5-2}{3-0} = \frac{3}{3} = 1$

$m = 1 = \frac{1}{1}$

$m_\perp = -\frac{1}{1}$

Graph the inequality:

$$6x - 3y \geq 18 - 6x$$

$$-6x \qquad -6x$$

$$\frac{-3y}{-3} \geq \frac{18 - 6x}{-3}$$

$$y \leq -6 + 2x$$